

SEQUENCE LISTING

<110> Brophy, Colleen
Furnish, Elizabeth
Komalavilas, Padmini
Dreiza, Catherine
Lokesh, Joshi
Panitch, Alyssa

<120> Novel Heat Shock Protein 20-Related Polypeptides and Uses
Therefor

<130> 03-956-PCT

<150> 60/512,211

<151> 2003-10-17

<150> 60/530,306

<151> 2003-12-16

<160> 55

<170> PatentIn version 3.3

<210> 1

<211> 6

<212> PRT

<213> Artificial sequence

<220>

<223> Synthetic polypeptide

<400> 1

Arg Arg Ala Ser Ala Pro
1 5

<210> 2

<211> 7

<212> PRT

<213> Artificial sequence

<220>

<223> Synthetic peptide

<400> 2

Leu Arg Arg Ala Ser Ala Pro
1 5

<210> 3

<211> 8

<212> PRT

<213> Artificial sequence

<220>

<223> Synthetic peptide

<400> 3

Trp Leu Arg Arg Ala Ser Ala Pro
1 5

<210> 4
<211> 6
<212> PRT
<213> Artificial sequence

<220>
<223> Synthetic peptide

<400> 4

Arg Arg Ala Thr Ala Pro
1 5

<210> 5
<211> 7
<212> PRT
<213> Artificial sequence

<220>
<223> Synthetic peptide

<400> 5

Leu Arg Arg Ala Thr Ala Pro
1 5

<210> 6
<211> 8
<212> PRT
<213> Artificial sequence

<220>
<223> Synthetic peptide

<400> 6

Trp Leu Arg Arg Ala Thr Ala Pro
1 5

<210> 7
<211> 6
<212> PRT
<213> Artificial sequence

<220>
<223> Synthetic peptide

<400> 7

Arg Arg Ala Tyr Ala Pro
1 5

<210> 8
<211> 7
<212> PRT
<213> Artificial sequence

<220>

<223> Synthetic peptide

<400> 8

Leu Arg Arg Ala Tyr Ala Pro
1 5

<210> 9

<211> 8

<212> PRT

<213> Artificial sequence

<220>

<223> Synthetic peptide

<400> 9

Trp Leu Arg Arg Ala Tyr Ala Pro
1 5

<210> 10

<211> 6

<212> PRT

<213> Artificial sequence

<220>

<223> Synthetic peptide

<400> 10

Arg Arg Ala Asp Ala Pro
1 5

<210> 11

<211> 7

<212> PRT

<213> Artificial sequence

<220>

<223> Synthetic peptide

<400> 11

Leu Arg Arg Ala Asp Ala Pro
1 5

<210> 12

<211> 8

<212> PRT

<213> Artificial sequence

<220>

<223> Synthetic peptide

<400> 12

Trp Leu Arg Arg Ala Asp Ala Pro
1 5

<210> 13
<211> 6
<212> PRT
<213> Artificial sequence

<220>
<223> Synthetic peptide

<400> 13

Arg Arg Ala Glu Ala Pro
1 5

<210> 14
<211> 7
<212> PRT
<213> Artificial sequence

<220>
<223> Synthetic peptide

<400> 14

Leu Arg Arg Ala Glu Ala Pro
1 5

<210> 15
<211> 8
<212> PRT
<213> Artificial sequence

<220>
<223> Synthetic peptide

<400> 15

Trp Leu Arg Arg Ala Glu Ala Pro
1 5

<210> 16
<211> 12
<212> PRT
<213> Artificial sequence

<220>
<223> Synthetic peptide

<400> 16

Arg Arg Ala Ser Ala Pro Arg Arg Ala Ser Ala Pro
1 5 10

<210> 17
<211> 14
<212> PRT
<213> Artificial sequence

<220>
<223> Synthetic peptide

<400> 17

Leu Arg Arg Ala Ser Ala Pro Leu Arg Arg Ala Ser Ala Pro
1 5 10

<210> 18

<211> 16

<212> PRT

<213> Artificial sequence

<220>

<223> Synthetic peptide

<400> 18

Trp Leu Arg Arg Ala Ser Ala Pro Trp Leu Arg Arg Ala Ser Ala Pro
1 5 10 15

<210> 19

<211> 12

<212> PRT

<213> Artificial sequence

<220>

<223> Synthetic peptide

<400> 19

Arg Arg Ala Thr Ala Pro Arg Arg Ala Thr Ala Pro
1 5 10

<210> 20

<211> 14

<212> PRT

<213> Artificial sequence

<220>

<223> Synthetic peptide

<400> 20

Leu Arg Arg Ala Thr Ala Pro Leu Arg Arg Ala Thr Ala Pro
1 5 10

<210> 21

<211> 16

<212> PRT

<213> Artificial sequence

<220>

<223> Synthetic peptide

<400> 21

Trp Leu Arg Arg Ala Thr Ala Pro Trp Leu Arg Arg Ala Thr Ala Pro
1 5 10 15

<210> 22

<211> 12

<212> PRT
<213> Artificial sequence

<220>
<223> Synthetic peptide

<400> 22

Arg Arg Ala Tyr Ala Pro Arg Arg Ala Tyr Ala Pro
1 5 10

<210> 23
<211> 14
<212> PRT
<213> Artificial sequence

<220>
<223> Synthetic peptide

<400> 23

Leu Arg Arg Ala Tyr Ala Pro Leu Arg Arg Ala Tyr Ala Pro
1 5 10

<210> 24
<211> 16
<212> PRT
<213> Artificial sequence

<220>
<223> Synthetic peptide

<400> 24

Trp Leu Arg Arg Ala Tyr Ala Pro Trp Leu Arg Arg Ala Tyr Ala Pro
1 5 10 15

<210> 25
<211> 12
<212> PRT
<213> Artificial sequence

<220>
<223> Synthetic peptide

<400> 25

Arg Arg Ala Asp Ala Pro Arg Arg Ala Asp Ala Pro
1 5 10

<210> 26
<211> 14
<212> PRT
<213> Artificial sequence

<220>
<223> Synthetic peptide

<400> 26

Leu Arg Arg Ala Asp Ala Pro Leu Arg Arg Ala Asp Ala Pro
1 5 10

<210> 27
<211> 16
<212> PRT
<213> Artificial sequence

<220>
<223> Synthetic peptide

<400> 27

Trp Leu Arg Arg Ala Asp Ala Pro Trp Leu Arg Arg Ala Asp Ala Pro
1 5 10 15

<210> 28
<211> 12
<212> PRT
<213> Artificial sequence

<220>
<223> Synthetic peptide

<400> 28

Arg Arg Ala Glu Ala Pro Arg Arg Ala Glu Ala Pro
1 5 10

<210> 29
<211> 14
<212> PRT
<213> Artificial sequence

<220>
<223> Synthetic peptide

<400> 29

Leu Arg Arg Ala Glu Ala Pro Leu Arg Arg Ala Glu Ala Pro
1 5 10

<210> 30
<211> 16
<212> PRT
<213> Artificial sequence

<220>
<223> Synthetic peptide

<400> 30

Trp Leu Arg Arg Ala Glu Ala Pro Trp Leu Arg Arg Ala Glu Ala Pro
1 5 10 15

<210> 31
<211> 14
<212> PRT
<213> Artificial sequence

<220>
<223> Synthetic peptide

<400> 31
Arg Arg Ala Ser Ala Pro Trp Leu Arg Arg Ala Ser Ala Pro
1 5 10

<210> 32
<211> 14
<212> PRT
<213> Artificial sequence

<220>
<223> Synthetic peptide

<400> 32

Trp Leu Arg Arg Ala Ser Ala Pro Arg Arg Ala Ser Ala Pro
1 5 10

<210> 33
<211> 4
<212> PRT
<213> Artificial sequence

<220>
<223> Synthetic peptide

<220>
<221> MISC_FEATURE
<222> (4)..(4)
<223> Xaa is R, RR, RRR, RRRR, RRRRR, or RRRRRR

<400> 33

Arg Arg Arg Xaa
1

<210> 34
<211> 13
<212> PRT
<213> Artificial sequence

<220>
<223> Synthetic peptide

<400> 34

Gly Arg Lys Lys Arg Arg Gln Arg Arg Arg Pro Pro Gln
1 5 10

<210> 35
<211> 12
<212> PRT
<213> Artificial sequence

<220>

<223> Synthetic peptide

<400> 35

Ala Tyr Ala Arg Ala Ala Ala Arg Gln Ala Arg Ala
1 5 10

<210> 36

<211> 34

<212> PRT

<213> Artificial sequence

<220>

<223> Synthetic peptide

<400> 36

Asp Ala Ala Thr Ala Thr Arg Gly Arg Ser Ala Ala Ser Arg Pro Thr
1 5 10 15

Glu Arg Pro Arg Ala Pro Ala Arg Ser Ala Ser Arg Pro Arg Arg Pro
20 25 30

Val Glu

<210> 37

<211> 27

<212> PRT

<213> Artificial sequence

<220>

<223> Synthetic peptide

<400> 37

Gly Trp Thr Leu Asn Ser Ala Gly Tyr Leu Leu Gly Leu Ile Asn Leu
1 5 10 15

Lys Ala Leu Ala Ala Leu Ala Lys Lys Ile Leu
20 25

<210> 38

<211> 12

<212> PRT

<213> Artificial sequence

<220>

<223> Synthetic peptide

<400> 38

Pro Leu Ser Ser Ile Phe Ser Arg Ile Gly Asp Pro
1 5 10

<210> 39

<211> 16

<212> PRT
<213> Artificial sequence

<220>
<223> Synthetic peptide

<400> 39

Ala Ala Val Ala Leu Leu Pro Ala Val Leu Leu Ala Leu Leu Ala Pro
1 5 10 15

<210> 40
<211> 12
<212> PRT
<213> Artificial sequence

<220>
<223> Synthetic peptide

<400> 40

Ala Ala Val Leu Leu Pro Val Leu Leu Ala Ala Pro
1 5 10

<210> 41
<211> 15
<212> PRT
<213> Artificial sequence

<220>
<223> Synthetic peptide

<400> 41

Val Thr Val Leu Ala Leu Gly Ala Leu Ala Gly Val Gly Val Gly
1 5 10 15

<210> 42
<211> 21
<212> PRT
<213> Artificial sequence

<220>
<223> Synthetic peptide

<400> 42

Gly Ala Leu Phe Leu Gly Trp Leu Gly Ala Ala Gly Ser Thr Met Gly
1 5 10 15

Ala Trp Ser Gln Pro
20

<210> 43
<211> 27
<212> PRT
<213> Artificial sequence

<220>

<223> Synthetic peptide

<400> 43

Gly Trp Thr Leu Asn Ser Ala Gly Tyr Leu Leu Gly Leu Ile Asn Leu
1 5 10 15

Lys Ala Leu Ala Ala Leu Ala Lys Lys Ile Leu
20 25

<210> 44

<211> 18

<212> PRT

<213> Artificial sequence

<220>

<223> Synthetic peptide

<400> 44

Lys Leu Ala Leu Lys Leu Ala Leu Lys Ala Leu Lys Ala Ala Leu Lys
1 5 10 15

Leu Ala

<210> 45

<211> 20

<212> PRT

<213> Artificial sequence

<220>

<223> Synthetic peptide

<400> 45

Lys Glu Thr Trp Trp Glu Thr Trp Trp Thr Glu Trp Ser Gln Pro Lys
1 5 10 15

Lys Lys Arg Lys
20

<210> 46

<211> 16

<212> PRT

<213> Artificial sequence

<220>

<223> Synthetic peptide

<400> 46

Lys Ala Phe Ala Lys Leu Ala Ala Arg Leu Tyr Arg Lys Ala Gly Cys
1 5 10 15

<210> 47

<211> 16

<212> PRT
<213> Artificial sequence

<220>
<223> Synthetic peptide

<400> 47

Lys Ala Phe Ala Lys Leu Ala Ala Arg Leu Tyr Arg Ala Ala Gly Cys
1 5 10 15

<210> 48
<211> 16
<212> PRT
<213> Artificial sequence

<220>
<223> Synthetic peptide

<400> 48

Ala Ala Phe Ala Lys Leu Ala Ala Arg Leu Tyr Arg Lys Ala Gly Cys
1 5 10 15

<210> 49
<211> 16
<212> PRT
<213> Artificial sequence

<220>
<223> Synthetic peptide

<400> 49

Lys Ala Phe Ala Ala Leu Ala Ala Arg Leu Tyr Arg Lys Ala Gly Cys
1 5 10 15

<210> 50
<211> 16
<212> PRT
<213> Artificial sequence

<220>
<223> Synthetic peptide

<400> 50

Lys Ala Phe Ala Lys Leu Ala Ala Gln Leu Tyr Arg Lys Ala Gly Cys
1 5 10 15

<210> 51
<211> 16
<212> PRT
<213> Artificial sequence

<220>
<223> Synthetic peptide

<400> 51

Ala Gly Gly Gly Gly Tyr Gly Arg Lys Lys Arg Arg Gln Arg Arg Arg
1 5 10 15

<210> 52
<211> 11
<212> PRT
<213> Artificial sequence

<220>
<223> Synthetic peptide

<400> 52

Tyr Gly Arg Lys Lys Arg Arg Gln Arg Arg Arg
1 5 10

<210> 53
<211> 11
<212> PRT
<213> Artificial sequence

<220>
<223> Synthetic peptide

<400> 53

Tyr Ala Arg Ala Ala Ala Arg Gln Ala Arg Ala
1 5 10

<210> 54
<211> 6
<212> PRT
<213> Artificial sequence

<220>
<223> Synthetic peptide

<220>
<221> MISC_FEATURE
<222> (4)..(4)
<223> Xaa is phosphorylated serine

<400> 54

Arg Arg Ala Xaa Ala Pro
1 5

<210> 55
<211> 6
<212> PRT
<213> Artificial sequence

<220>
<223> Synthetic peptide

<220>
<221> MISC_FEATURE
<222> (3)..(3)

<223> Xaa is any amino acid
<220>
<221> MISC_FEATURE
<222> (4)..(4)
<223> Xaa is phosphorylated serine
<220>
<221> MISC_FEATURE
<222> (5)..(5)
<223> Xaa is any amino acid
<400> 55

Arg Ser Xaa Xaa Xaa Pro
1 5